

SYSTEM **P**LANNING & **A**NALYSIS **R**eport

S-113

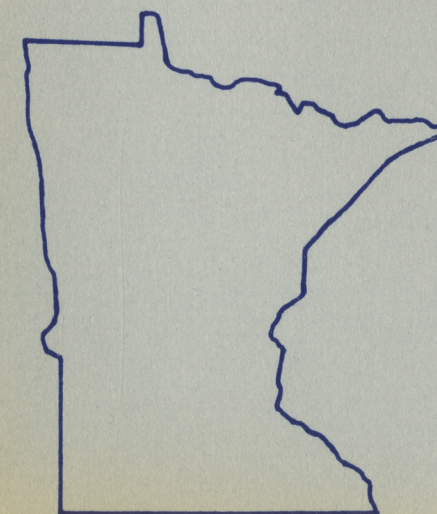
T.H. 100, 52

29TH AVE. N. TO T.H. 152 ON T.H. 100
C.S.A.H. 9 TO 51ST AVE. N. ON T.H. 52

S.P. 2735, 2755, 2721

SEPTEMBER, 1972

PREPARED BY
OFFICE OF SYSTEM PLANNING



**MINNESOTA
DEPARTMENT
OF HIGHWAYS**

DEPARTMENT HIGHWAY- Statewide Planning
Room 807, Ext. 3158

Office Memorandum

TO : Paul G. Velz
Road Design Engineer

DATE: September 12, 1972

FROM : Morris Gildemeister, Chief
Statewide Planning Section

SUBJECT: T.H. 100, 52; 29th Ave. N. to T.H. 152 on T.H. 100; C.S.A.H. 9 to
51st Ave. N. on T.H. 52
S.P. 2735, 2755, 2721
System Planning & Analysis Report S-113

This report is in answer to D. W. Brown's May 4, 1972 request for
1985 ADT, DHV and HCADT. The map on page 2 shows the project
location. System 14 and 16 ADT are shown on page 3. Each of 39
segments have System 14 ADT with no asterisk and System 16 ADT
with an asterisk.

The tabulations for heavy commercial ADT volumes are shown on pages
4-7 for System "14" and on pages 8-11 for System "16".

Data required to produce this report are discussed on page 12.

Morris Gildemeister

Morris Gildemeister, Chief
Statewide Planning Section

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STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
WORK MAP

Project Location.
S.P. 2735, 2755, 2721



TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 4

FOR

T.H. 100, 52 S.P. 2735, 2755, 2721 LENGTH - MILES
COUNTY Hennepin LOCATION 29th Ave. No. to T.H. 152
on T.H. 100: C.S.A.H. 9 to 51st Ave. N. on T.H. 52

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS
DEFINED ON ATTACHED INDEX MAP For System "14"

VEHICLE # TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	47594	6352	23846	20382	5586	46062	5850	38032	31324	4600	4058
1	886	156	648	556	150	874	156	1130	950	124	100
2	448	47	186	168	24	402	46	142	104	27	46
3	160	4	16	14	3	158	6	48	42	3	14
4	202	6	22	20	5	200	8	66	56	7	24
5	506	7	30	24	6	504	9	76	66	8	30
6	204	28	252	236	26	200	25	306	258	31	28
TOTAL ADT	50000	6600	25000	21400	5800	48400	6100	39800	32800	4800	4300
TOTAL H. COMM. ADT	2406	248	1154	1018	214	2338	250	1768	1476	200	242
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEM-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 4

FOR

T.H. 100, 52 S.P. 2735, 2755, 2721 LENGTH - MILES
COUNTY Hennepin LOCATION 29th Ave. N. to T.H. 152
on T.H. 100: C.S.A.H. 9 to 51st Ave. N. on T.H. 52

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS
DEFINED ON ATTACHED INDEX MAP For System "14"

VEHICLE # TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	8658	26246	3792	5198	45066	21639	21760	41732	773	4304	8537
1	224	362	116	130	1408	667	691	1308	13	93	200
2	73	218	24	60	406	164	199	320	4	21	38
3	17	118	12	16	184	86	91	170	1	10	12
4	31	136	8	27	118	50	57	96	2	18	24
5	38	426	20	33	332	157	163	308	3	24	32
6	59	94	28	36	286	137	139	266	4	30	57
TOTAL ADT	9100	27600	4000	5500	47800	22900	23100	44200	800	4500	8900
TOTAL H. COMM. ADT	442	1354	208	302	2734	1261	1340	2468	27	196	363
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
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- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
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6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 3 OF 4

FOR

T.H. 100, 52 S.P. 2735, 2755, 2721 LENGTH - MILES
COUNTY Hennepin LOCATION 29th Ave. N. to T.H. 152
on T.H. 100; C.S.A.H. 9 to 51st Ave. N. on T.H. 52

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 33 AS
DEFINED ON ATTACHED INDEX MAP For System "14"

VEHICLE # TYPE	SEGMENT NUMBER										
	23	24	25	26	27	28	29	30	31	32	33
0	43320	3340	4519	7969	5545	4366	11080	45678	4278	8437	11289
1	762	97	117	225	141	121	286	802	126	147	231
2	294	15	11	32	15	19	32	286	36	37	61
3	142	4	3	9	5	6	12	140	9	41	47
4	184	5	5	10	6	6	12	184	15	14	24
5	490	5	5	9	6	6	12	490	18	40	52
6	208	34	40	146	82	76	166	220	18	84	96
TOTAL ADT	45400	3500	4700	8400	5800	4600	11600	47800	4500	8800	11800
TOTAL H. COMM. ADT	2080	160	181	431	255	234	520	2122	222	363	511
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
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6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 4 OF 4

FOR

T.H. 100, 52 S.P. 2735, 2755, 2721 LENGTH - MILES
COUNTY Hennepin LOCATION 29th Ave. N. to T.H. 152
on T.H. 100; C.S.A.H. 9 to 51st Ave. N. on T.H. 52

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 34 THROUGH 39 AS
DEFINED ON ATTACHED INDEX MAP For System "14"

VEHICLE # TYPE	SEGMENT NUMBER										
	34	35	36	37	38	39					
0	15624	2852	1426	6058	7213	34106					
1	346	84	42	124	148	590					
2	66	24	12	49	58	194					
3	80	6	3	12	14	118					
4	34	10	5	15	18	158					
5	86	12	6	18	21	458					
6	164	12	6	24	28	176					
TOTAL ADT	16400	3000	1500	6300	7500	35800					
TOTAL H. COMM. ADT	776	148	74	242	287	1694					
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

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2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 4

FOR

T.H. 100, 52 S.P. 2735, 2755, 2721 LENGTH - MILES
COUNTY Hennepin LOCATION 29th Ave. N. to T.H. 152
on T.H. 100; C.S.A.H. 9 to 51st Ave. N. on T.H. 52

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS
DEFINED ON ATTACHED INDEX MAP For System "16"

VEHICLE # TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	63968	8278	30198	20764	6839	61090	7586	25784	20048	5464	5476
1	1190	203	808	566	184	1152	202	762	608	147	134
2	602	61	228	172	29	538	50	124	76	32	62
3	216	5	20	14	4	214	8	30	26	4	18
4	270	8	28	20	6	266	10	44	36	8	32
5	680	9	36	24	7	676	12	48	42	9	40
6	274	36	282	240	31	264	32	208	164	36	38
TOTAL ADT	67200	8600	31600	21800	7100	64200	7900	27000	21000	5700	5800
TOTAL H. COMM. ADT	3232	322	1402	1036	261	3110	314	1216	952	236	324
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 4

FOR

T.H. 100, 52 S.P. 2735, 2755, 2721 LENGTH - MILES
COUNTY Hennepin LOCATION 29th Ave. N. to T.H. 152
on T.H. 100; C.S.A.H. 9 to 51st Ave. N. on T.H. 52

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS
DEFINED ON ATTACHED INDEX MAP For System "16"

VEHICLE # TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	10940	34966	11783	5482	33048	13433	15365	24548	1159	2391	9008
1	281	480	322	137	980	405	470	770	20	52	216
2	94	314	47	63	302	100	145	188	6	12	49
3	22	162	13	17	126	52	61	100	2	6	13
4	40	182	16	28	98	31	46	56	3	10	25
5	49	572	16	35	234	95	113	182	4	13	31
6	74	124	203	38	212	84	100	156	6	16	58
TOTAL ADT	11500	36800	12400	5800	35000	14200	16300	26000	1200	2500	9400
TOTAL H. COMM. ADT	560	1834	617	318	1952	767	935	1452	41	109	392
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

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6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 3 OF 4

FOR

T.H. 100, 52 S.P. 2735, 2755, 2721 LENGTH -- MILES
COUNTY Hennepin LOCATION 29th Ave. N. to T.H. 152
on T.H. 100; C.S.A.H 9 to 51st Ave. N. on T.H. 52

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 33 AS
DEFINED ON ATTACHED INDEX MAP For System "16"

VEHICLE # TYPE	SEGMENT NUMBER										
	23	24	25	26	27	28	29	30	31	32	33
0	52982	3340	3558	8932	4488	4270	8584	53418	3655	11959	11959
1	912	97	92	244	113	118	218	902	75	245	245
2	412	15	9	36	12	18	24	400	29	65	65
3	188	4	2	10	4	6	10	184	7	50	50
4	232	5	4	12	5	6	10	230	9	25	25
5	634	5	4	12	5	6	10	632	11	54	54
6	240	34	31	154	73	76	144	234	14	102	102
TOTAL ADT	55600	3500	3700	9400	4700	4500	9000	56000	3800	12500	12500
TOTAL H. COMM. ADT	2618	160	142	468	212	230	416	2582	145	541	541
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

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TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 4 OF 4

FOR

T.H. 100, 52 S.P. 2735, 2755, 2721 LENGTH - MILES
COUNTY Hennepin LOCATION 29th Ave. N. to T.H. 152
on T.H. 100; C.S.A.H. 9 to 51st Ave. N. on T.H. 52

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 34 THROUGH 39 AS
DEFINED ON ATTACHED INDEX MAP For System "16"

VEHICLE # TYPE	SEGMENT NUMBER										
	34	35	36	37	38	39					
0	28832	961	3803	2981	4616	51792					
1	660	20	112	61	95	936					
2	172	8	32	24	37	390					
3	110	2	8	6	9	182					
4	70	2	13	7	11	234					
5	132	3	16	9	14	636					
6	224	4	16	12	18	230					
TOTAL ADT	30200	1000	4000	3100	4800	54400					
TOTAL H. COMM. ADT	1368	39	197	119	184	2608					
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

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Basic Data, Methods and Assumptions

The 1985 ADT and DHV for both Systems 14 and 16 is presented in SPAR report M-112.

Heavy commercial ADT totals agree with the totals of System "14" heavy commercial ADT study.

Vehicle classification counts made on the project location were projected by statewide vehicle type trends to 1985 heavy commercial volumes and adjusted to the System "14" heavy commercial ADT totals.

The 1996 ADT may be calculated by expanding 1985 ADT by 20%.